
Product Data Sheet

Product Name: Canakinumab

Cat. No.: GC66328

Chemical Properties

Cas. No. 914613-48-2

Formula M.Wt 145.5 kDa

Solubility Storage Store at -80°C, Aliquots should be stored at the same temperature after first use to avoid multiple freeze-thaws.

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

IC₅₀: 43.6 pM (human IL-1 β), 40.8 pM (marmoset IL-1 β)^[2]

Canakinumab (ACZ885) is a recombinant human **anti-IL-1 β** monoclonal antibody. Canakinumab shows **IC₅₀** values of 43.6 and 40.8 pM for human and marmoset IL-1 β , respectively. The mode of action of canakinumab is based on the neutralization of IL-1 β signaling, resulting in suppression of inflammation related to disorders of autoimmune origin^{[1][2]}.

Canakinumab (0-7 nM) dose dependently represses IL-6 production in marmoset peripheral blood mononuclear cells with IC₅₀s of 43.6 and 40.8 pM for human and marmoset IL-1 β ^[2]. Canakinumab effectively competes with IL-1RI and IL-1RII for binding to IL-1 β ^[2].

Caution: Product has not been fully validated for medical applications. For research use only.

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